

D. K. ENTERPRISE

201 SAI BHAWAN, MACHHLIPITH, SHAHPUR, SURAT - 395003 INDIA.
TEL /FAX : 0261-249 1514 MOBILE : 98241-25424
Web : www.dkenterprise.in E-mail : info@dkenterprise.in

PROSOFT – C100

(100% Conc. Polyester Resin Based Softener)

PROSOFT – C100 is a polyester resin that can be emulsified and dispersed. The emulsified and dispersed PROSOFT – C100 (Can Be termed as PROSOFT-D10) can be used as a softening agent that provides durability under repeated washing for polyester fibers or fabrics.

[PROPERTIES]

| | | |
|------------------|-------|--|
| Appearance | | light yellow (soft) solid |
| Specific gravity | | 1.05 to 1.09 |
| Add value | | 5 mg/g or less |
| Softening point | | 43°C (DSC peak temperature) |
| Melt viscosity | | 1500 to 2500 mPa.s (at 80°C) 800 to 600 mPa.s (at 100°C) 150 to 250 mPa.s (at 120°C) |

[FEATURES]

1. PROSOFT – C100 can easily be emulsified and dispersed.
2. PROSOFT – C100 in the emulsified and dispersed state provides an excellent softness for polyester fibers of fabrics.
3. PROSOFT – C100 in the emulsified and dispersed state exhibits a good effect as a wet-softening agent.

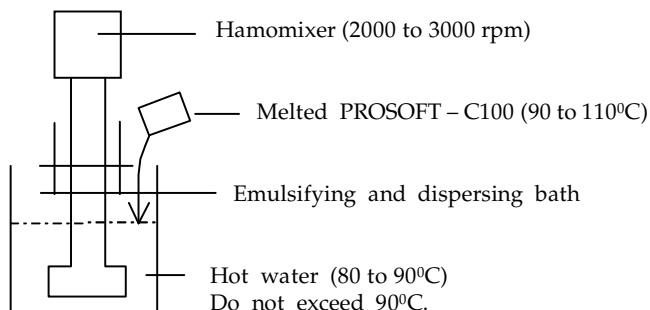
[HOW TO EMULSIFY AND DISPERSE PROSOFT – C100]

- 1) Melt PROSOFT – C100 in a warm warehouse, steam box, hot water bath, etc.
- 2) Supply hot water to the emulsifying and dispersing bath.
- 3) Stir the hot water.
- 4) Supply melted PROSOFT – C100 while stirring the hot water in the bath.
- 5) Add an antifoaming agent if necessary.
- 6) Check that the mixture is uniformly emulsified and dispersed.
- 7) Cool down the mixture while stirring. (If no cooling apparatus is available, emulsify PROSOFT – C100 at high concentrations (solid matter in 12 to 16%) and supply cold water.)
- 8) Add an antiseptic agent if necessary.

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< Example of emulsifying and dispersing method >



[EXAMPLE]

| | | | |
|-----------------------------|-------------------------|---|-----------------------|
| Composition A | • PROSOFT - C100 | : | 7.0% |
| | • Water | : | 92.9% |
| | • Antiseptic agent | : | 0.1% |
| | • Antifoaming agent | : | small amount |
| Properties of Composition A | • Appearance | : | milkywhite emulsion |
| | • Ionicity | : | nonion |
| | • pH (sock soln.) | : | 5.5 ± 1 |
| | • Viscosity (at 25°C) | : | 100 cps or less |
| | • Solubility | : | soluble in cold water |
| | • BOD (1 g/l) | : | 77 mg/l |
| | • COD (1 g/l) | : | 36 mg/l |
| | • n-hexane (10 g/l) | : | 16 mg/l |

[USE EXAMPLE (COMPOSITION A)]

| | |
|---|-------------|
| * For scouring, dyeing and RC (soaping) | 1 to 2 g/l |
| * For padding method | 5 to 10 g/l |

[APPLICATIONS]

Emulsify and disperse PROSOFT - C100, and add the emulsified and dispersed mixture (as a softening agent) to another finishing agent, in order to improve handling of fibers or fabrics.

(Finishing agents :amino-silicone emulsion, dimethyl-silicone emulsion, urethane resin emulsion, fatty acid type emulsion, etc.)

[CONTAINER] : 30 kg drum.

ORIGIN : JAPAN.